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ABSTRACT OF THE DISCLOSURE

A spread-spectrum-matched-filter apparatus including a code generator, a programmable-matched filter, a frame-matched filter, and a controller. The code generator generates replicas of a pilot-chip-sequence signal and a data-chip-sequence signal, which are used to set the programmable-impulse response of the programmable-matched filter. The programmable-impulse response is alternately changed between that of the pilot-chip-sequence signal and the data-chip-sequence signal so that the programmable-matched filter alternately detects the pilot-spread-spectrum channel and the data-spread-spectrum channel embedded in a received spread-spectrum signal. The frame-matched filter detects a despread-pilot-bit-sequence signal and generates a peak-pilot-correlation signal which can be used for timing of the controller as to when to trigger changing the programmable-impulse response of the programmable-matched filter.

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